Folder: Parker Landfill R04

**Project** 

Name: 170 GPM Parker Landfill ID: 170 GPM Parker Landfill

Location: VERMONT STATE AVERAGE, VERMONT

Modifiers: Ma

Material 1.0001

(Modified)

**Labor** 0.7743

(Modified)

Equipment 1.0881

(Modified)

Category: Groundwater Remediation

Label45

Report Option: Fiscal Year

Site

Name: Alternative 1
ID: Parker Landfill
Type: Groundwater

**Description:** Groundwater Pump and Treat

**Phase Element** 

Name: GW Monitoring

Type: Long Term Monitoring

Labor Rate Group: System Labor Rate

Analysis Rate Group: System Analysis Rate

Approach: None

**Start Date: 2/1/2004** 

Media/Waste Type: Groundwater

Secondary Media/Waste Type: N/A

Contaminant: Volatile Organic Compounds

(VOCs)

Secondary Contaminant: None

Markup Template: System Defaults

O&M Markup Template: N/A

Cost Database Date: 2003 Cost Type: User-Defined

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Description: 10 wells, quarterly for 5 yr, annually for years 6-30 for VOCs; 45 wells semi-annually for 30 yrs for TAL Metals and

VOCs

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:42:42 PM

Page: 2 of 8

**Technology:** Monitoring (12 - months only)

Element: Groundwater

			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity					_	
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33020401	Disposable Materials per Sample	40.00	EA	7.67	0.00	0.00	\$306.86	
33020402	Decontamination Materials per	40.00	EA	6.90	0.00	0.00	\$276.03	
•	Sample							
33020561	Nylon Tubing, 1/4" Outside	4,025.00	LF	0.40	0.00	0.00	\$1,610.00	
	Diameter							
33021509	Water Quality Parameter Testing	2.00	WK	219.02	0.00	0.00	\$438.04	
	Device							
33029501	Water Analysis EPA 8260B	40.00	LS	181.50	0.00	0.00	\$7,260.00	
33230510	4" Submersible Pump Rental,	2.00	WK	220.94	0.00	0.00	\$441.87	
	Week	2.00	••••	220.01	0.00	0.00	Ψ111.01	
33231186	Well Development Equipment	2.00	WK	219.02	0.00	0.00	\$438.04	
2222.100	Rental (weekly)	2.00	••••	210.02	0.00	0.00	ψ+00.0+	

Total Element Cost \$10,770.84

**Element:** General Monitoring

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
·	·	•	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
33010104	Car or Van Mileage Charge	160.00	MI	0.34	0.00	0.00	\$54.99	
33220108	Project Scientist	140.00	HR	0.00	22.44	0.00	\$3,141.57	

Cost Database Date: 2003 Cost Type: User-Defined

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**Element:** General Monitoring

			Unit of	Material	Labor	Equipment	<b>Extended</b>	Cost
Assembly	Description	Quantity						
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220112	Field Technician	148.00	HR	0.00	14.98	0.00	\$2,216.46	
33220114	Word Processing/Clerical	20.00	HR	0.00	12.41	0.00	\$248.21	
33220115	Draftsman/CADD	20.00	HR	0.00	19.23	0.00	\$384.65	
			Total	Element Cost			\$6,045.89	
		Total 1st Year Technology Cost					\$16,816.73	

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:42:42 PM

**Technology:** Monitoring (12 - months only)

**Element:** Groundwater

			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						
			Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
33020401	Disposable Materials per Sample	10.00	EA	7.67	0.00	0.00	\$76.71	
33020402	Decontamination Materials per Sample	10.00	EA	6.90	0.00	0.00	\$69.01	
33020561	Nylon Tubing, 1/4" Outside Diameter	1,025.00	LF	0.40	0.00	0.00	\$410.00	
33021509	Water Quality Parameter Testing Device	1.00	WK	219.02	0.00	0.00	\$219.02	
33029501	Water Analysis EPA 8260B	10.00	LS	181.50	0.00	0.00	\$1,815.00	
33230509	4" Submersible Pump Rental, Day	2.00	DAY	73.65	0.00	0.00	\$147.29	
33231186	Well Development Equipment Rental (weekly)	1.00	WK	219.02	0.00	0.00	\$219.02	

**Element:** General Monitoring

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
Accombig	Description	Quantity	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	Unit Cost	Cost	Override
33010104	Car or Van Mileage Charge	40.00	MI	0.34	0.00	0.00	\$13.75	
33220108	Project Scientist	35.00	HR	0.00	22.44	0.00	\$785.39	
33220112	Field Technician	37.00	HR	0.00	14.98	0.00	\$554.12	

**Total Element Cost** 

Cost Database Date: 2003

Cost Type: User-Defined

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\$2,956.06

**Element:** General Monitoring

			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220114	Word Processing/Clerical	5.00	HR	0.00	12.41	0.00	\$62.05	
33220115	Draftsman/CADD	5.00	HR	0.00	19.23	0.00	\$96.16	
		Total Element Cost					\$1,511.47	
		То	tal 1st Year T		\$4,467.53			

Cost Database Date: 2003 Cost Type: User-Defined

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**Technology:** Monitoring (12 - months only)

Element: Groundwater

			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33020401	Disposable Materials per Sample	90.00	EA	7.67	0.00	0.00	\$690.43	
33020402	Decontamination Materials per Sample	90.00	EA	6.90	0.00	0.00	\$621.06	
33020561	Nylon Tubing, 1/4" Outside Diameter	9,025.00	LF	0.40	0.00	0.00	\$3,610.00	
33021509	Water Quality Parameter Testing Device	4.00	WK	219.02	0.00	0.00	\$876.09	
33021620	TAL Metals (EPA 6010/7000s), Water, Water Analysis	90.00	EA	342.30	0.00	0.00	\$30,806.59	
33029501	Water Analysis EPA 8260B	90.00	LS	181.50	0.00	0.00	\$16,335.00	
33230510	4" Submersible Pump Rental, Week	3.00	WK	220.94	0.00	0.00	\$662.81	
33231186	Well Development Equipment Rental (weekly)	4.00	WK	219.02	0.00	0.00	\$876.09	
			Total	Element Cost			\$54,478.06	

Cost Database Date: 2003

Cost Type: User-Defined

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**Element:** General Monitoring

			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33010104	Car or Van Mileage Charge	320.00	MI	0.34	0.00	0.00	\$109.98	
33220108	Project Scientist	315.00	HR	0.00	22.44	0.00	\$7,068.54	
33220112	Field Technician	301.00	HR	0.00	14.98	0.00	\$4,507.81	
33220114	Word Processing/Clerical	45.00	HR	0.00	12.41	0.00	\$558.47	
33220115	Draftsman/CADD	45.00	HR	0.00	19.23	0.00	\$865.47	
			Total	Element Cost			\$13,110.27	
		То	tal 1st Year T	echnology Cos	st		\$67,588.32	
			Total		\$88,872.58			

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Cost Database Date: 2003 Cost Type: User-Defined

Print Date: 5/19/2004 2:42:42 PM

Folder: Parker Landfill R04

**Project** 

Name: 170 GPM Parker Landfill ID: 170 GPM Parker Landfill

Location: VERMONT STATE AVERAGE, VERMONT

Modifiers:

Material 1.0001

(Modified)

**Labor** 0.7743

(Modified)

Equipment 1.0881

(Modified)

Category: Groundwater Remediation

Label45

Report Option: Fiscal Year

Site

Name: Alternative 1
ID: Parker Landfill
Type: Groundwater

**Description:** Groundwater Pump and Treat

**Phase Element** 

Name: 5 YR Review Year 05

Type: Long Term Monitoring

Labor Rate Group: System Labor Rate

Analysis Rate Group: System Analysis Rate

Approach: None

**Start Date:** 7/1/2009

Media/Waste Type: Groundwater

Secondary Media/Waste Type: N/A

Contaminant: Volatile Organic Compounds

(VOCs)

Secondary Contaminant: None

Markup Template: System Defaults

**O&M Markup Template:** N/A

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:06 PM

Page: 1 of 4

Technology: Five-Year Review

**Element:** Document Review

Licinoit. D	ocament review							
Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
			Total	Element Cost			\$2,187.38	
Element: Ir	nterviews							
A = = =	Description	0	Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity	Magazze	Unit Coat	Unit Coat	Unit Coot	Coot	Overwide

Assembly	Description	Quantity				• •		
		-	Measure	Unit Cost	<b>Unit Cost</b>	Unit Cost	Cost	Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
			Total	Element Cost			\$745.60	

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
-	•	•	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
33220102	Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
33220105	Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	

Cost Database Date: 2003 Cost Type: User-Defined

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Page: 2 of 4

**Element:** Site Inspection

			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	Overnac
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
			Total	Element Cost			\$2,541.59	

Element: Report

			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	~
			Total	Element Cost			\$4,504.42	

Element: Travel

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
, 1000	2000.ip.iio.ii	Quantity	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

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**Total Element Cost** 

\$1,330.90

**Total 1st Year Technology Cost** 

\$11,309.88

**Total Phase Element Cost** 

\$11,309.88

Cost Database Date: 2003 Cost Type: User-Defined

Print Date: 5/19/2004 2:43:06 PM

Page: 4 of 4

Folder: Parker Landfill R04

**Project** 

Name: 170 GPM Parker Landfill ID: 170 GPM Parker Landfill

Location: VERMONT STATE AVERAGE, VERMONT

Modifiers: Mat

Material 1.0001

(Modified)

**Labor** 0.7743

(Modified)

Equipment 1.0881

(Modified)

**Category:** Groundwater Remediation

Label45

Report Option: Fiscal Year

Site

Name: Alternative 1
ID: Parker Landfill
Type: Groundwater

**Description:** Groundwater Pump and Treat

**Phase Element** 

Name: 5 YR Review Year 10

Type: Long Term Monitoring

Labor Rate Group: System Labor Rate

Analysis Rate Group: System Analysis Rate

Approach: None

Start Date: 7/1/2014

Media/Waste Type: Groundwater

Secondary Media/Waste Type: N/A

Contaminant: Volatile Organic Compounds

(VOCs)

Secondary Contaminant: None

Markup Template: System Defaults

**O&M Markup Template:** N/A

Cost Database Date: 2003 Cost Type: User-Defined

Print Date: 5/19/2004 2:43:18 PM

Page: 1 of 4

Technology: Five-Year Review

**Element:** Document Review

Accombly	Description	·	Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	Override
33220102	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220103	Project Scientist	16.00	HR					
	•			0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
			Total	Element Cost			\$2,187.38	
Element: In	terviews							
			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
			Total	Element Cost			\$745.60	
Element: Si	te Inspection							
			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						

Measure

HR

HR

12.00

37.00

**Unit Cost** 

37.28

27.60

**Unit Cost** 

0.00

0.00

**Unit Cost** 

0.00

0.00

Cost Database Date: 2003

33220102

33220105

Cost Type: User-Defined
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Project Manager

Project Engineer

Page: 2 of 4

Cost Override

\$447.36

\$1,021.21

**Element:** Site Inspection

Assembly	Description	O	Unit of	Material	Labor	Equipment	Extended	Cost
	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
			Total	Element Cost			\$2,541.59	

Element: Report

			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
			Total	Element Cost			\$4,504.42	

Element: Travel

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
•	•	<b></b>	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

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Total Element Cost \$1,330.90

Total 1st Year Technology Cost \$11,309.88

Total Phase Element Cost \$11,309.88

Cost Database Date: 2003 Cost Type: User-Defined

Print Date: 5/19/2004 2:43:18 PM

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Folder: Parker Landfill R04

**Project** 

Name: 170 GPM Parker Landfill ID: 170 GPM Parker Landfill

Location: VERMONT STATE AVERAGE, VERMONT

Modifiers: Material 1.0001

(Modified)

**Labor** 0.7743

(Modified)

Equipment 1.0881

(Modified)

Category: Groundwater Remediation

Label45

Report Option: Fiscal Year

Site

Name: Alternative 1
ID: Parker Landfill
Type: Groundwater

**Description:** Groundwater Pump and Treat

**Phase Element** 

Name: 5 YR Review Year 15

Type: Long Term Monitoring

Labor Rate Group: System Labor Rate

Analysis Rate Group: System Analysis Rate

Approach: None

Start Date: 7/1/2019

Media/Waste Type: Groundwater

Secondary Media/Waste Type: N/A

**Contaminant:** Volatile Organic Compounds

(VOCs)

Secondary Contaminant: None

Markup Template: System Defaults

O&M Markup Template: N/A

Cost Database Date: 2003 Cost Type: User-Defined

Print Date: 5/19/2004 2:43:29 PM

Page: 1 of 4

Technology: Five-Year Review

**Element:** Document Review

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
			Total	Element Cost			\$2,187.38	
Element: In	iterviews							
Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override

33220102 Project Manager

**Unit Cost Unit Cost Unit Cost** Measure 37.28 20.00 HR 0.00 0.00 **Total Element Cost** 

**Element:** Site Inspection

Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
	-	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	
۱,	roject Manager	roject Manager 12.00	Description Quantity  Measure roject Manager 12.00 HR	DescriptionQuantityMeasureUnit Costroject Manager12.00HR0.00	Description Quantity  Measure Unit Cost Unit Cost roject Manager 12.00 HR 0.00 37.28	Description Quantity  Measure Unit Cost Unit Cost Unit Cost roject Manager 12.00 HR 0.00 37.28 0.00	DescriptionQuantityMeasureUnit CostUnit CostUnit Costroject Manager12.00HR0.0037.280.00\$447.36

Cost Database Date: 2003 Cost Type: User-Defined

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\$745.60

\$745.60

Element: Site Inspection

Accombly	Description	Over titus	Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
			Total	Element Cost			\$2,541.59	

Element: Report

Assembly	Deceriation	Our metite v	Unit of	Material	Labor	Equipment	Extended	Cost
•	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
			Total	Element Cost			\$4,504.42	

Element: Travel

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
-	•	•	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	Unit Cost	Cost	Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003 Cost Type: User-Defined

Print Date: 5/19/2004 2:43:29 PM

Page: 3 of 4

Total Element Cost \$1,330.90

Total 1st Year Technology Cost \$11,309.88

Total Phase Element Cost \$11,309.88

Cost Database Date: 2003
Cost Type: User-Defined

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Page: 4 of 4

Folder: Parker Landfill R04

**Project** 

Name: 170 GPM Parker Landfill ID: 170 GPM Parker Landfill

Location: VERMONT STATE AVERAGE, VERMONT
Modifiers: Material 1 0001 (Modified)

lodifiers: Material 1.0001 Labor 0.7743 (Modified)
(Modified)

Equipment 1.0881

(Modified)

Category: Groundwater Remediation

Label45

Report Option: Fiscal Year

Site

Name: Alternative 1
ID: Parker Landfill
Type: Groundwater

**Description:** Groundwater Pump and Treat

**Phase Element** 

Name: 5 YR Review Year 20 Media/Waste Type: Groundwater

Type: Long Term Monitoring Secondary Media/Waste Type: N/A

Labor Rate Group: System Labor Rate

Contaminant: Volatile Organic Compounds (VOCs)

Analysis Rate Group: System Analysis Rate Secondary Contaminant: None

Approach: None Markup Template: System Defaults

Start Date: 7/1/2024 O&M Markup Template: N/A

Cost Database Date: 2003

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:42 PM

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Technology: Five-Year Review

**Element:** Document Review

			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity	Omit of	Material	Luboi	Equipment	Extended	Oost
	•	•	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
33220102	Project Manager	17.00	HR	0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
			Total	Element Cost			\$2,187.38	
Element: In	nterviews							
			Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
			Total	Element Cost			\$745.60	
Element: S	ite Inspection							
			llmit of	Mataulal	1 -1	<b></b>	F-411	0 1

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
22220400	Duele et Manager		Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
33220105	Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	

Cost Database Date: 2003 Cost Type: User-Defined

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**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
•	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
			Total	<b>Element Cost</b>			\$2,541.59	

Element: Report

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
			Total	Element Cost			\$4,504.42	

Element: Travel

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
33010108 33010202	Sedan, Automobile, Rental Per Diem (per person)	5.00 10.00	Measure DAY DAY	Unit Cost 46.58 109.80	<b>Unit Cost</b> 0.00 0.00	Unit Cost 0.00 0.00	<b>Cost</b> \$232.90 \$1,098.00	Override
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

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Total Element Cost \$1,330.90

Total 1st Year Technology Cost \$11,309.88

Total Phase Element Cost \$11,309.88

Cost Database Date: 2003 Cost Type: User-Defined

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Folder: Parker Landfill R04

**Project** 

Name: 170 GPM Parker Landfill ID: 170 GPM Parker Landfill

Location: VERMONT STATE AVERAGE, VERMONT

Modifiers: Material 1.0001

(Modified)

**Labor** 0.7743

(Modified)
(Modified)

**Equipment** 1.0881 **Category:** Groundwater Remediation

Label45

Report Option: Fiscal Year

Site

Name: Alternative 1
ID: Parker Landfill
Type: Groundwater

**Description:** Groundwater Pump and Treat

**Phase Element** 

Name: 5 YR Review Year 25

Type: Long Term Monitoring

Labor Rate Group: System Labor Rate

Analysis Rate Group: System Analysis Rate

Approach: None

Start Date: 7/1/2029

Media/Waste Type: Groundwater

Secondary Media/Waste Type: N/A

Contaminant: Volatile Organic Compounds

(VOCs)

Secondary Contaminant: None

Markup Template: System Defaults

**O&M Markup Template:** N/A

Cost Database Date: 2003 Cost Type: User-Defined

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Page: 1 of 4

Technology: Five-Year Review

**Element:** Document Review

A	Decembrish	0	Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	17.00	HR					Override
				0.00	37.28	0.00	\$633.76	
33220105	Project Engineer	20.00	HR	0.00	27.60	0.00	\$552.01	
33220108	Project Scientist	16.00	HR	0.00	22.44	0.00	\$359.04	
33220109	Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
			Total	Element Cost			\$2,187.38	
Element: Int	terviews							
A a a a w la lu s	Decembrish	0	Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						
00000400	D : 444		Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	20.00	HR	0.00	37.28	0.00	\$745.60	
			Total	Element Cost			\$745.60	
Element: Si	te Inspection							
Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost

Measure

12.00

37.00

HR

HR

**Unit Cost** 

37.28

27.60

**Unit Cost** 

0.00

0.00

**Unit Cost** 

0.00

0.00

Cost Database Date: 2003

33220102

33220105

Cost Type: User-Defined

Print Date: 5/19/2004 2:43:57 PM

Project Manager

Project Engineer

Page: 2 of 4

Cost Override

\$447.36

\$1,021.21

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
•	•	4	Measure	Unit Cost	<b>Unit Cost</b>	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	Override
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
			Total	Element Cost			\$2,541.59	
Element: R	Report							
	<b>5</b>	_	Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity						
			Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override

HR

HR

HR

HR

0.00

0.00

0.00

0.00

19.00

46.00

41.00

75.00

Total Element Cost \$4,504.42

0.00

0.00

0.00

0.00

37.28

27.60

22.44

21.42

Element: Travel

33220102

33220105

33220108

33220109

Project Manager

Project Engineer

Project Scientist

Staff Scientist

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
33010108 33010202 33041101	Sedan, Automobile, Rental Per Diem (per person) Airfare	5.00 10.00 2.00	Measure DAY DAY LS	Unit Cost 46.58 109.80 0.00	Unit Cost 0.00 0.00 0.00	Unit Cost 0.00 0.00 0.00	Cost \$232.90 \$1,098.00 \$0.00	Override

Cost Database Date: 2003 Cost Type: User-Defined

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\$708.32

\$920.03

\$1,269.61

\$1,606.46

**Total Element Cost** 

\$1,330.90

**Total 1st Year Technology Cost** 

\$11,309.88

**Total Phase Element Cost** 

\$11,309.88

Cost Database Date: 2003 Cost Type: User-Defined

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Folder: Parker Landfill R04

**Project** 

Name: 170 GPM Parker Landfill ID: 170 GPM Parker Landfill

Location: VERMONT STATE AVERAGE, VERMONT

Modifiers:

Material 1.0001

(Modified)

**Labor** 0.7743

(Modified)

Equipment 1.0881

(Modified)

Category: Groundwater Remediation

Label45

Report Option: Fiscal Year

Site

Name: Alternative 1
ID: Parker Landfill
Type: Groundwater

**Description:** Groundwater Pump and Treat

**Phase Element** 

Name: 5 YR Review Year 30

Type: Long Term Monitoring

Labor Rate Group: System Labor Rate

Analysis Rate Group: System Analysis Rate

Approach: None

**Start Date:** 7/1/2034

Media/Waste Type: Groundwater

Secondary Media/Waste Type: N/A

Contaminant: Volatile Organic Compounds

(VOCs)

Secondary Contaminant: None

Markup Template: System Defaults

O&M Markup Template: N/A

Cost Database Date: 2003 Cost Type: User-Defined

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Technology: Five-Year Review

**Element:** Document Review

Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
	quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
Project Manager	17.00	HR	0.00	37.28			
Project Engineer	20.00	HR	0.00	27.60	0.00	•	
Project Scientist	16.00	HR	0.00	22.44	0.00	:	
Staff Scientist	30.00	HR	0.00	21.42	0.00	\$642.58	
		Total	Element Cost			\$2,187.38	
terviews							
Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
	Project Engineer Project Scientist Staff Scientist	Project Manager 17.00 Project Engineer 20.00 Project Scientist 16.00 Staff Scientist 30.00  terviews	Description  Quantity  Measure  Project Manager  Project Engineer  Project Scientist  Staff Scientist  Total  terviews  Measure  Measure  17.00  HR  16.00  HR  30.00  HR  Total	Description         Quantity         Measure         Unit Cost           Project Manager         17.00         HR         0.00           Project Engineer         20.00         HR         0.00           Project Scientist         16.00         HR         0.00           Staff Scientist         30.00         HR         0.00           Total Element Cost           terviews	Description         Quantity         Measure         Unit Cost         Unit Cost           Project Manager         17.00         HR         0.00         37.28           Project Engineer         20.00         HR         0.00         27.60           Project Scientist         16.00         HR         0.00         22.44           Staff Scientist         30.00         HR         0.00         21.42    Total Element Cost  Unit of Material Labor	Description         Quantity         Measure         Unit Cost         Unit Cost         Unit Cost           Project Manager         17.00         HR         0.00         37.28         0.00           Project Engineer         20.00         HR         0.00         27.60         0.00           Project Scientist         16.00         HR         0.00         22.44         0.00           Staff Scientist         30.00         HR         0.00         21.42         0.00           Total Element Cost    Total Labor Equipment	Description         Quantity         Measure         Unit Cost         Unit Cost         Unit Cost         Cost           Project Manager         17.00         HR         0.00         37.28         0.00         \$633.76           Project Engineer         20.00         HR         0.00         27.60         0.00         \$552.01           Project Scientist         16.00         HR         0.00         22.44         0.00         \$359.04           Staff Scientist         30.00         HR         0.00         21.42         0.00         \$642.58           Total Element Cost         \$2,187.38           terviews    Unit of Material Labor Equipment Extended

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
33220102	Project Manager	20.00	Measure HR	Unit Cost 0.00	Unit Cost 37.28	Unit Cost 0.00	<b>Cost</b> \$745.60	Override
			Total	Element Cost			\$745.60	

**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
			Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
33220102	Project Manager	12.00	HR	0.00	37.28	0.00	\$447.36	
33220105	Project Engineer	37.00	HR	0.00	27.60	0.00	\$1,021.21	

Cost Database Date: 2003 Cost Type: User-Defined

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**Element:** Site Inspection

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
-	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220108	Project Scientist	23.00	HR	0.00	22.44	0.00	\$516.12	
33220109	Staff Scientist	26.00	HR	0.00	21.42	0.00	\$556.90	
			Total	<b>Element Cost</b>			\$2,541.59	

Element: Report

Assembly	Description	O. antitu	Unit of	Material	Labor	Equipment	Extended	Cost
	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33220102	Project Manager	19.00	HR	0.00	37.28	0.00	\$708.32	
33220105	Project Engineer	46.00	HR	0.00	27.60	0.00	\$1,269.61	
33220108	Project Scientist	41.00	HR	0.00	22.44	0.00	\$920.03	
33220109	Staff Scientist	75.00	HR	0.00	21.42	0.00	\$1,606.46	
			Total	Element Cost			\$4,504.42	

**Element:** Travel

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
		•	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	Unit Cost	Cost	Override
33010108	Sedan, Automobile, Rental	5.00	DAY	46.58	0.00	0.00	\$232.90	
33010202	Per Diem (per person)	10.00	DAY	109.80	0.00	0.00	\$1,098.00	
33041101	Airfare	2.00	LS	0.00	0.00	0.00	\$0.00	

Cost Database Date: 2003

Cost Type: User-Defined

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Total Element Cost \$1,330.90

Total 1st Year Technology Cost \$11,309.88

Total Phase Element Cost \$11,309.88

Cost Database Date: 2003 Cost Type: User-Defined

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Folder: Parker Landfill R04

**Project** 

Name: 170 GPM Parker Landfill ID: 170 GPM Parker Landfill

Location: VERMONT STATE AVERAGE, VERMONT

Modifiers: Material 1 0001 (Modified)

Modifiers: Material 1.0001 (Modified)

Labor 0.7743 (Modified)

Equipment 1.0881 (Modified)

**Category:** Groundwater Remediation

Label45

Report Option: Fiscal Year

Site

Name: Alternative 1

ID: Parker Landfill

Type: Groundwater

**Description:** Groundwater Pump and Treat

Phase Element

Name: Site Closeout Media/Waste Type: Groundwater

Type: Site Close-out Secondary Media/Waste Type: N/A

Labor Rate Group: System Labor Rate Contaminant: Volatile Organic Compounds

(VOCs)

Page: 1 of 4

Analysis Rate Group: System Analysis Rate Secondary Contaminant: None

Approach: None Markup Template: System Defaults

Start Date: 8/1/2034 O&M Markup Template: N/A

Cost Database Date: 2003

Cost Type: User-Defined

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**Technology:** Site Close-Out Documentation

**Element:** Meetings

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
•	•	;	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	Unit Cost	Cost	Override
33220101	Senior Project Manager	4.00	HR	0.00	44.50	0.00	\$178.00	
33220102	Project Manager	80.00	HR	0.00	37.28	0.00	\$2,982.38	
33220106	Staff Engineer	60.00	HR	0.00	21.99	0.00	\$1,319.57	
33220114	Word Processing/Clerical	24.00	HR	0.00	12.41	0.00	\$297.85	
33220115	Draftsman/CADD	8.00	HR	0.00	19.23	0.00	\$153.86	
			Total	Element Cost			\$4,931.67	

**Element:** Work Plans & Reports

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
•	·	,	Measure	<b>Unit Cost</b>	Unit Cost	Unit Cost	Cost	Override
33220101	Senior Project Manager	60.00	HR	0.00	44.50	0.00	\$2,670.04	
33220102	Project Manager	300.00	HR	0.00	37.28	0.00	\$11,183.94	
33220104	Senior Staff Engineer	300.00	HR	0.00	37.21	0.00	\$11,163.54	
33220109	Staff Scientist	100.00	HR	0.00	21.42	0.00	\$2,141.94	
33220114	Word Processing/Clerical	166.00	HR	0.00	12.41	0.00	\$2,060.13	
33220115	Draftsman/CADD	80.00	HR	0.00	19.23	0.00	\$1,538.62	
			Total	Element Cost			\$30,758.20	

Cost Database Date: 2003 Cost Type: User-Defined

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\$30,758.20

Element: Abandon wells

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
Assembly	Description	Quantity	Measure	Unit Cost	Unit Cost	Unit Cost	Cost	Override
33010107	Van or Pickup Rental	52.00	DAY	35.00	0.00	0.00	\$1,820.18	Overnac
33010202	Per Diem (per person)	104.00	DAY	109.80	0.00	0.00	\$11,419.20	
33220101	Senior Project Manager	2.00	HR	0.00	44.50	0.00	\$89.00	
33220102	Project Manager	204.00	HR	0.00	37.28	0.00	\$7,605.08	
33220106	Staff Engineer	200.00	HR	0.00	21.99	0.00	\$4,398.56	
33220109	Staff Scientist	200.00	HR	0.00	21.42	0.00	\$4,283.88	
33220114	Word Processing/Clerical	4.00	HR	0.00	12.41	0.00	\$49.64	
			Total	Element Cost			\$29,665.54	

**Element:** Documents

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
_	·	- <b>,</b>	Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
33220101	Senior Project Manager	3.00	HR	0.00	44.50	0.00	\$133.50	
33220102	Project Manager	60.00	HR	0.00	37.28	0.00	\$2,236.79	
33220104	Senior Staff Engineer	60.00	HR	0.00	37.21	0.00	\$2,232.71	
33220106	Staff Engineer	150.00	HR	0.00	21.99	0.00	\$3,298.92	
33220114	Word Processing/Clerical	60.00	HR	0.00	12.41	0.00	\$744.62	
33220115	Draftsman/CADD	40.00	HR	0.00	19.23	0.00	\$769.31	

Cost Database Date: 2003 Cost Type: User-Defined

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**Element:** Documents

Assembly	Description	Quantity	Unit of	Material	Labor	Equipment	Extended	Cost
•	•		Measure	<b>Unit Cost</b>	<b>Unit Cost</b>	<b>Unit Cost</b>	Cost	Override
33440102	Standard Record Storage Carton (Month)	840.00	MO	0.00	0.36	0.00	\$302.06	
33440105	Standard Storage Carton	10.00	EA	2.32	1.94	0.00	\$42.61	
33440113	Pickup Boxes (Per Box)	10.00	EA	0.00	1.94	0.00	\$19.44	
			Total	Element Cost			\$9,779.96	
		То	otal 1st Year T	echnology Cos	st		\$75,135.36	
			Total	Phase Elemen	t Cost		\$75,135.36	

Cost Database Date: 2003 Cost Type: User-Defined

Print Date: 5/19/2004 2:42:54 PM

#### **Residual Waste Management Summary Report**

Folder: Parker Landfill R05

**Project** 

Name: 170 GPM Parker Landfill ID: 170 GPM Parker Landfill

Location: VERMONT STATE AVERAGE, VERMONT Modifiers: Material 1.0001 (Modified)

**Labor** 0.7743 (Modified) Equipment 1.0881 (Modified)

Category: Groundwater Remediation Label45

Report Option: Fiscal Year

Site

Name: Alternative 1 ID: Parker Landfill Type: Groundwater

**Description:** Groundwater Pump and Treat

**Phase Element** 

Name: Pump and Treat

Type: Remedial Action Labor Rate Group: System Labor Rate

Analysis Rate Group: System Analysis Rate

Approach: Ex Situ

Media/Waste Type: Groundwater

Secondary Media/Waste N/A

**Contaminant:** Volatile Organic Compounds (VOCs)

Secondary Contaminant: None

Markup Template: System Defaults **O&M Markup Template:** System Defaults

Technology	Seq. #	Residual Waste Generated	Value	Units
Groundwater Monitoring Well	1	Drill Cuttings	2.48	CY
Groundwater Extraction Wells	s 1 ,	Drill Cuttings	12	Drums
		Drill Cuttings	12	Drums
Groundwater Monitoring Well	1	Drill Cuttings	2.48	CY

Cost Database Date: 2003 Cost Type: User-Defined

Print Date: 5/20/2004 10:50:18 AM